



SR 53 Westbound at  
Chattahoochee River  
Bridge Replacement  
Design-Build Industry Forum

**December 6, 2018**

**Andrew Hoenig, PE, DB Program Manager**  
**Richard O'Hara, DB Project Manager**

## Disclaimer Statement

At this meeting, the Department is providing information about the project's delivery goals, anticipated scope, anticipated Design-Build procurement process, and potential risks.

Participants are encouraged to ask questions during this meeting; **however, any information provided by the Department is considered informational only and subject to change.**

# Agenda

- **Design-Build Overview**
- **Schedule**
- **Project Overview**
- **Design-Build Procurement**
- **Open Discussion**

# Design-Build Overview

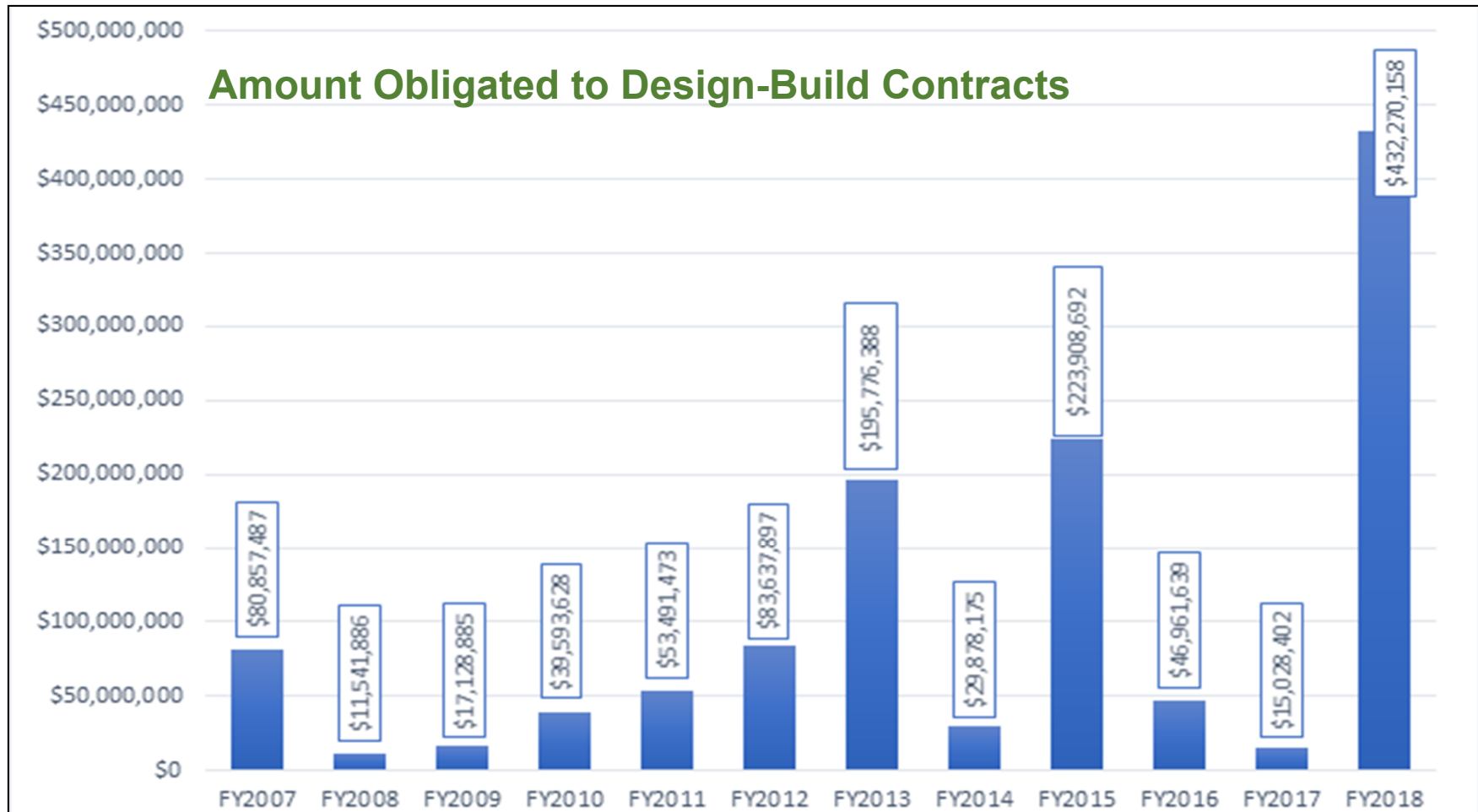
## Design-Build

- Combines preconstruction related services with construction services into **one contract.**
- Allows the contractor to participate in the project's design in an effort to **improve communications, expedite project delivery, and reduce costs.**

## Governed by:

- 23 Code of Federal Regulations (CFR) Part 636
- Georgia Code Section 32-2-81 (*Enacted 2004*)
- Board Rules, Chapter 672-18 (*Adopted 2006 & 2013*)

# Innovative Delivery



# Upcoming Design-Build Opportunities

Project	PI Number	County	Anticipated Selection Method	Letting
SR 135 @ Altamaha River - TIA	<a href="#">0007037</a>	Jeff Davis Montgomery	Two Phase Low Bid	5/17/2019
SR 247/ Pio Nono & College St bridges over Norfolk Southern Railroad	<a href="#">0014895</a>	Bibb	Best Value	7/12/2019
	<a href="#">0014899</a>			
SR 53 WB @ Chattahoochee River	<a href="#">0010212</a>	Hall	Two Phase Low Bid	7/19/2019
SR 25 at Savannah River (Houlihan Bridge) and SR 25 at Middle River	<a href="#">0013741</a>	Chatham	TBD	Anticipated FY 2020
	<a href="#">0013742</a>			
I-16 @ SR 307 Diverging Diamond Interchange	<a href="#">0013727</a>	Chatham	TBD	TBD
I-985 From I-85/Gwinnett to SR 53/Hall	<a href="#">0014130</a>	Gwinnett Hall	TBD	TBD
I-85 Widening SR 211 to SR 11/US 129	<a href="#">0013545</a>	Barrow Jackson	Best Value	Summer 2024

<http://www.dot.ga.gov/PS/Innovative/DesignBuild>

# DB Procurement Documents Updates

## RFQ

- Updated for clarity
- Pass/Fail requirements remain

## RFP

- Updated for clarity, consistency & continuous improvement
- Design-Build Contract Template Published Online
- Combining Volumes 2 & 3 into single volume
- Updating Design-Build Manual Attachments

## Tentative Schedule

a. GDOT issues Public Notice Advertisement (PNA)	11/02/2018	-----
<b>b. Industry Forum – GDOT Room 402-404</b>	<b>12/06/2018</b>	<b>10:30 A.M.</b>
c. Industry one-on-one meetings – GDOT Room 408/409	<b>12/06/2018</b>	2:00 P.M. - 5:00 P.M.
d. GDOT issues Request for Qualifications (RFQ)	2/08/2019	-----
e. Deadline for Statement of Qualifications (SOQ)	03/11/2019	11:00 A.M.
f. GDOT issues the Notice to Finalists	04/05/2019	-----
g. GDOT issues Request for Proposals (RFP) to the Finalists	04/19/2019	-----
h. Receipt of Technical Proposals and Price Proposals from Finalists	07/12/2019	11:00 A.M.
i. GDOT letting	7/19/2019	11:00 A.M.





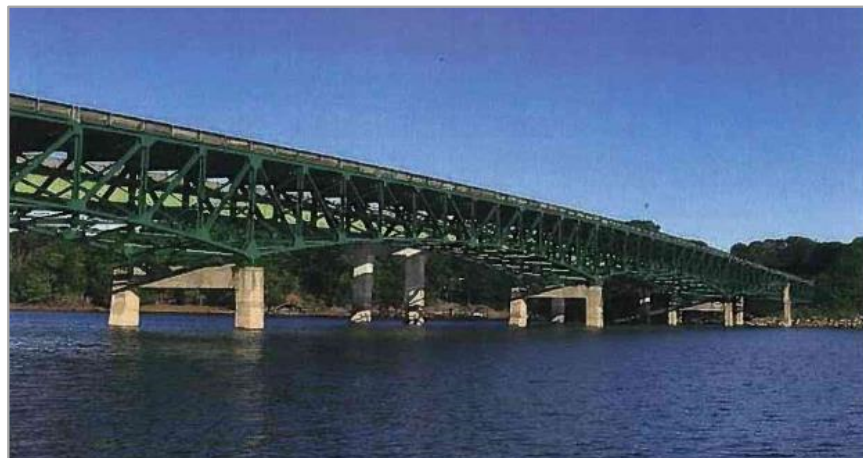
# SR 53 at Chattahoochee River Project Specifics

**December 6, 2018**

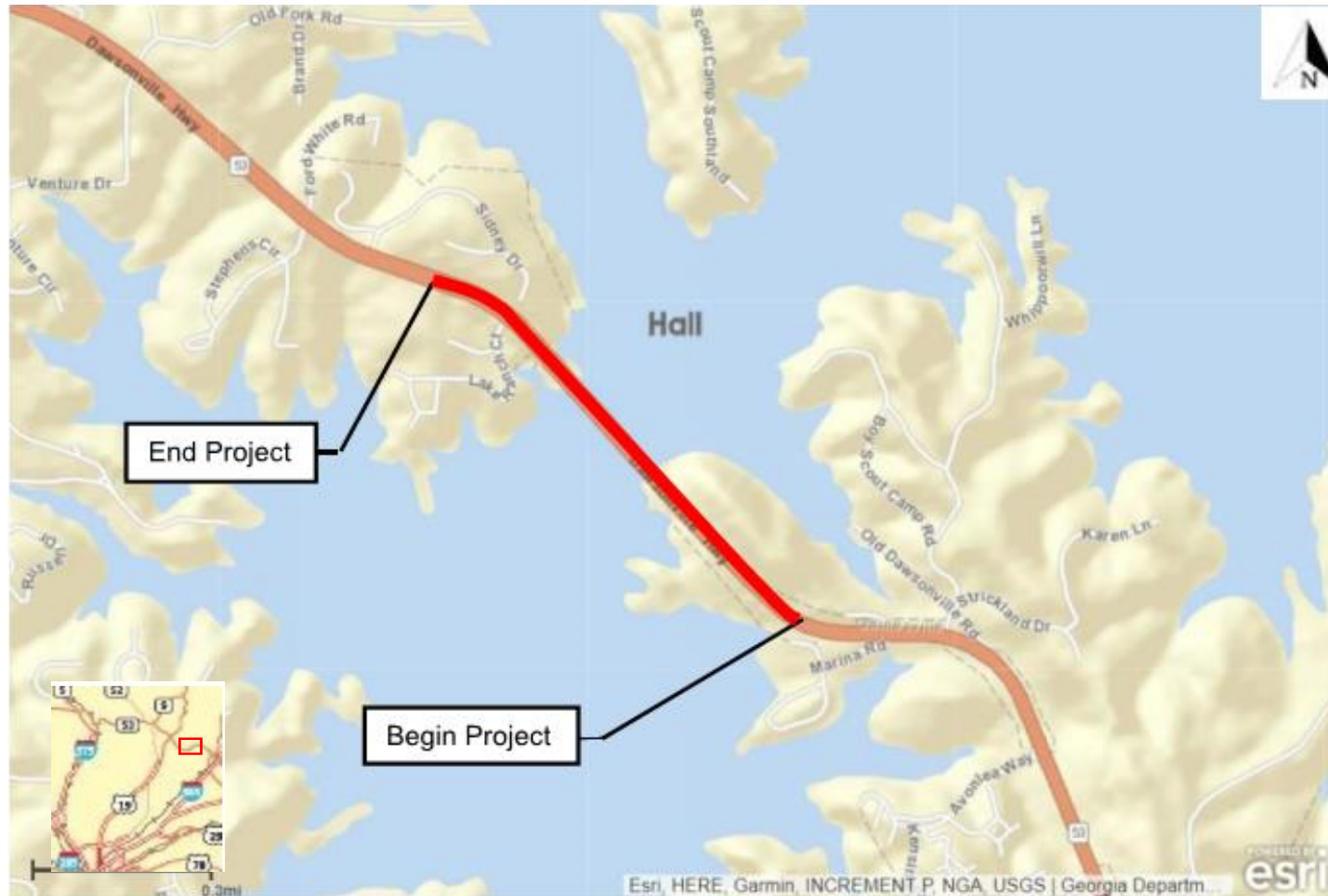
**Rick O'Hara, DB Project Manager**

## Project Overview

- Design-Build Delivery (2-Phase Low Bid)
- Maintain existing traffic during construction
- Construction is within existing or GDOT-obtained Right-of-Way
- DBE Goal for the Project is 11% (8% if prime self-performs concrete)
- The bridge crosses Lake Lanier, an Army Corps of Engineer reservoir, in deep water.



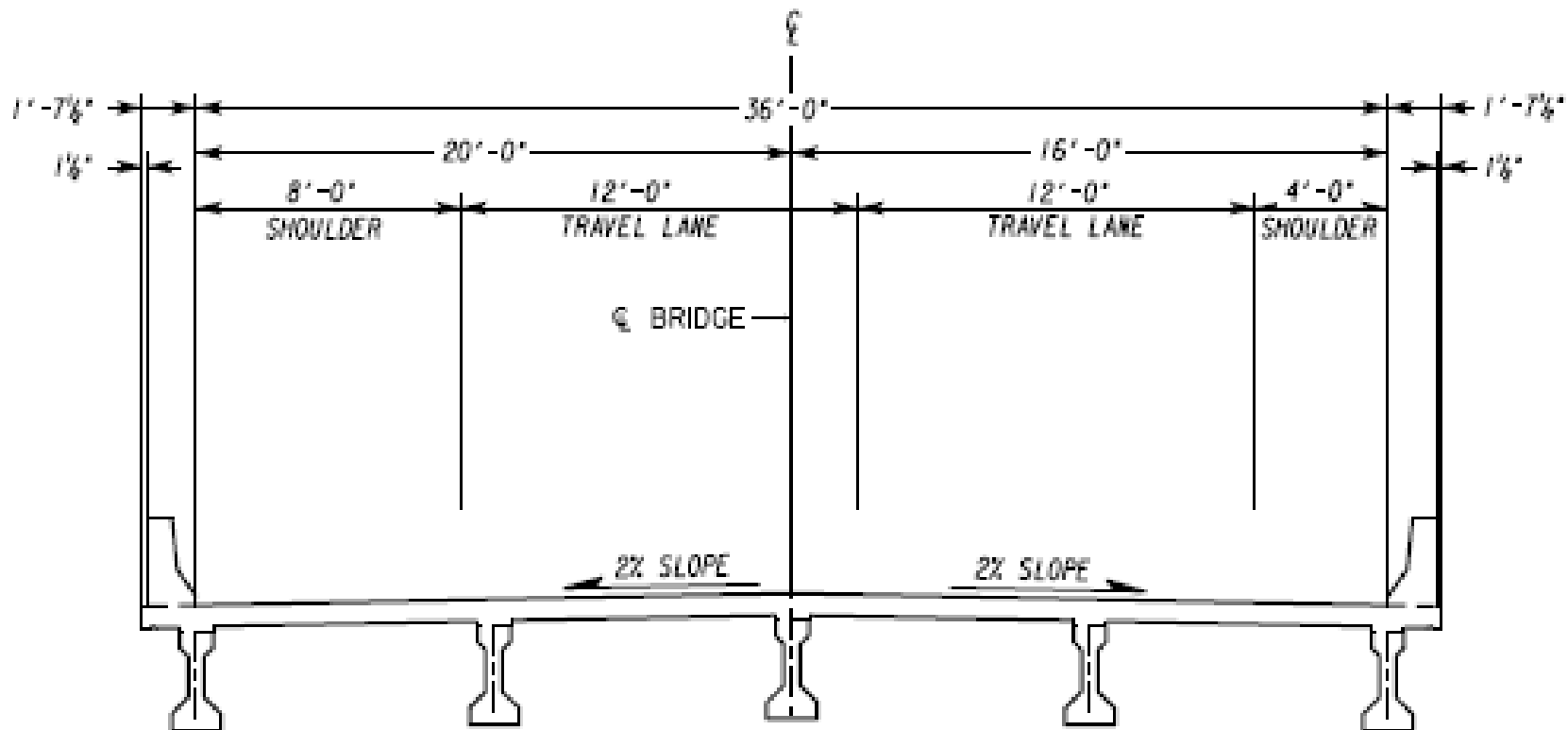
## SR 53 at Chattahoochee River Project Location



## Existing Bridges

	Westbound Bridge (replace)	Eastbound Bridge (to remain)
Year Constructed	1956	n/a
Number of Spans	8	6
Span Lengths	30'-137'-200'-260'-260'- 200'-57.5'-57.5'	139'-201'-260'-260'- 201'-119'
Number of Lanes	2	n/a
Lane Width	12'	n/a
Shoulder Width	1'	n/a
Clearance between existing and proposed WB bridges	10'-0"	
Clearance between existing WB and EB bridges		44'

# Proposed Bridge Typical Section



Looking East on SR 53

## Anticipated Area Classes for Lead Design Consultant

3.01	Two-Lane or Multi-lane Rural Roadway Design
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**- OR -**

4.02	Major Bridge Design
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# Anticipated Area Classes for DB Team Members

1.06(a)	NEPA
1.06(b)	History
1.06(c)	Air Quality
1.06(d)	Noise
1.06(e)	Ecology
1.06(f)	Archaeology
1.06(g)	Freshwater Aquatic Surveys
1.06(h)	Bat Surveys
1.07	Attitude, Opinion, and Community Value Studies (Public Involvement)
1.10	Traffic Analysis
3.01	Two-Lane or Multi-Lane Rural Roadway Design
3.02	Two-Lane or Multi-Lane Urban Roadway Design
3.10	Utility Coordination
3.12	Hydraulic and Hydrological Studies (Roadway)
4.02	Major Bridge Design
4.04	Hydraulic and Hydrological Studies (Bridges)
5.01	Land Surveying
5.02	Engineering Surveying
5.03	Geodetic Surveying
5.08	Overhead/Subsurface Utility Engineering (SUE)
6.01(a)	Soil Survey Studies
6.01(b)	Geological and Geophysical Studies
6.02	Bridge Foundation Studies
6.03	Hydraulic and Hydrological Studies (Soils and Foundation)
6.05	Hazardous Waste Site Assessment Studies
9.01	Erosion, Sedimentation, and Pollution Control Plan
9.03	Field Inspections for Erosion Control

## Risks and Mitigation Strategies

Risk	Mitigations for RFP
Geotechnical	<ul style="list-style-type: none"><li>• Provide existing BFI's, Soil Survey, and Geotechnical boring logs/samples</li></ul>
Survey Database	<ul style="list-style-type: none"><li>• Provide Survey database</li></ul>
Environmental	<ul style="list-style-type: none"><li>• Environmental-related scope items and anticipated review/approval durations</li><li>• Anticipated in-water work durations</li><li>• Coordination with the USACE and DNR</li></ul>
Design Exception/ Design Variance	<ul style="list-style-type: none"><li>• None anticipated</li></ul>



# Risks and Mitigation Strategies

Risk	Mitigations for RFP
Hydraulics	<ul style="list-style-type: none"><li>• Perform hydraulics screening</li><li>• H&amp;H Technical memo</li></ul>
Local Outreach	<ul style="list-style-type: none"><li>• Early and ongoing coordination with stakeholders</li></ul>
Cost Estimate	<ul style="list-style-type: none"><li>• Continue to monitor industry trends</li></ul>
Overall Contract Duration	<ul style="list-style-type: none"><li>• Establish reasonable durations per contract in order to complete all of the Work</li></ul>
Utilities	<ul style="list-style-type: none"><li>• SUE QL-D</li><li>• Early coordination with utility owners</li><li>• Executed MOUs</li></ul>

## Environmental Concerns

- **Deep Water Crossing (approx. 90 feet deep)**
- **Recreational Area**  
Lake Lanier Recreational and Reservoir Resource.
- **Ecology Resources**  
Species included in SP 107.23H: Northern long-eared bat and the Indiana bat.
- **Permits – Georgia and federal requirements**

# Design-Build Team Roles and Responsibilities

- Bridge and Roadway design
- Schedule development/management
- Geotechnical reports
- Stream buffer variance applications (if needed)
- Permit and mitigation costs
- Maintain traffic, traffic control, and construction signage
- Utility coordination and relocation (if needed)
- Complete project within a defined timeline

# GDOT

## Roles and Responsibilities

- **Submittal review**
- **Environmental Special Studies/NEPA preparation and approval**
- **Construction Oversight/CEI**
  - Material Testing will be provided by OMAT
  - CEI performed by OID/ATKINS

# Anticipated Procurement Process

## Two Phase Low Bid

### Phase I - Request for Qualifications (RFQ)

- Georgia Procurement Registry (GPR)
- Restriction on communications
- Qualified Proposers meeting the Pass/Fail requirements will advance to Phase II

### Phase II - Request for Proposals (RFP)

- GDOT DB SharePoint Site
- Administrative, Technical and Price Proposals
- GDOT awards to the lowest responsive bid

## Required Information – RFQ Phase (1/3)

- Organization chart
- Lead Contractor/Lead Design Consultant basic company information
- Lead Contractor Certificate of Qualifications
- Matrix listing GDOT Prequalified Area Classes
  - Include prequalification Notice of Professional Consultant Qualifications

## Required Information – RFQ Phase (2/3)

- Exhibit I
  - Certification Form for Lead Design Consultant
- Exhibit II
  - GA Security and Immigration Compliance Act Affidavit for Lead Contractor
- Exhibit II
  - GA Security and Immigration Compliance Act Affidavit for Lead Design Consultant
- Statement(s) regarding removal / failure to complete an assigned contract
- Statements of Disclosure (Conflict of Interest)
- Signed Amendment(s) acknowledgement

## Required Information – RFQ Phase (3/3)

- Key Personnel experience and qualifications (resume)
  - ten (10) years Industry experience for each Key Personnel position and should include at least three (3) years of experience in the same or similar role for projects of similar size and complexity
  - relevant experience in the applicable proposed role for projects of similar complexity, size, scope, delivery method and function
- Lead Contractor experience and qualifications
  - at least three (3) construction projects delivered using Design-Build and/or conventional Design-Bid-Build contracting which demonstrate the Lead Contractor's qualifications
- Lead Design Consultant experience and qualifications
  - at least three (3) design projects delivered using Design-Build and/or conventional Design-Bid-Build contracting that demonstrate the Lead Design Consultant's qualifications



# Anticipated Procurement Process

## Phase II - Request for Proposals (RFP)

- **April 19, 2019 – Issue RFP**
  - Posted on GDOT DB SharePoint site
  - Includes Reference Information Documents (RIDs)
  - Submit questions to OIC Contracting Officer
  
- **Administrative, Technical and Price Proposals**
  - Due to GDOT by July 12, 2019
  - Price Proposal in separate package
  - GDOT evaluates Administrative and Technical Proposals on a pass/fail basis
  - Price Proposals to be opened on July 19, 2019

# Questions?

**During project procurement, all proposer questions shall be submitted to the Department via email:**

[53atChattahoochee@dot.ga.gov](mailto:53atChattahoochee@dot.ga.gov)

## **References:**

### **GDOT Design-Build Webpage**

<http://www.dot.ga.gov/PS/Innovative/DesignBuild>

### **GDOT Design-Build SharePoint Site**

<http://mydocs.dot.ga.gov/info/designbuild/default.aspx>